



Double Switch-D

Wi-R2S2-D
2-channel
Wi-Fi relay
for DIN rail mounting



www.fif.com.pl/fox/doubleswitch-d



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System capabilities

- » Communication via home Wi-Fi network;
- » Remote access to devices via the Polish F&F cloud;
- » Integration with Google and Google Home voice assistant;
- » Ability to work autonomously, without a Wi-Fi connection;
- » Advanced programmable timers based on online calendars and enhanced with astronomical functions;
- » Free mobile applications for Android and iOS.

Properties

- » 2 separated relay outputs with changeover contact, rated up to 16 A;
- » Possibility of connecting external push buttons for local control of the relays;
- » Control of receivers via mobile app and time programmers;
- » Built-in RTC clock with power supply backup and local copy of settings guarantees correct operation of the programmer even in the event of lack of Wi-Fi connection;
- » Support for 2 separated local inputs enabling::
 - opening/closing the gate or wicket;
 - connection of sensors for opening/closing the gate or wicket;
- » Support for REST API and MQTT allowing the controller to integrate with external systems (including but not limited to Home Assistant);
- » External Wi-Fi antenna;
- » DIN rail mounting;
- » 2S housing.

Configuration

For the initial configuration of the Fox module, it is necessary to download and run the free Fox application available for mobile devices running the system:

- » Android, version 8.0 or higher;
- » iOS, version 14 or higher.

You can download the app directly from the stores:



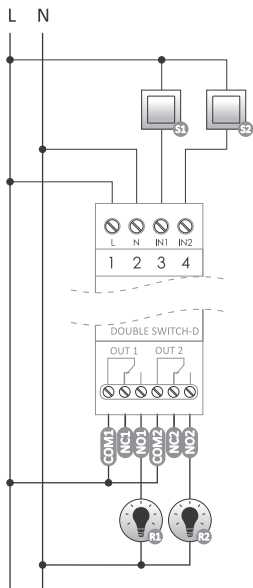
or via the website:

www.fif.com.pl/fox

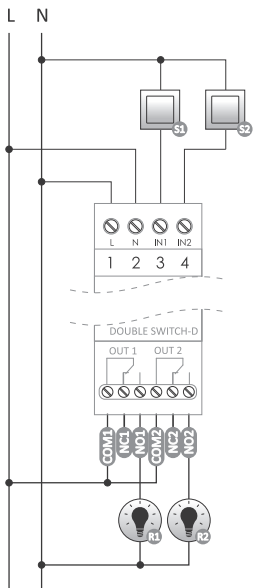


On the above page, you can also find detailed information on how to configure and operate the devices and the Fox mobile app.

Wiring diagram



Inputs control (level L)



Inputs control (level N)

Description of terminals

L power supply

N power supply

IN1 local push-button input S1 (control of receiver R1)

IN2 local push-button input S2 (control of receiver R2)

COM1 – channel 1 – COM contact

NC1 – channel 1 – normally closed contact

NO1 – channel 1 – normally open contact

COM2 – channel 2 – COM contact

NC2 – channel 2 – normally closed contact

NO2 – channel 2 – normally open contact




It is recommended to use monostable (momentary) buttons. When using bistable buttons, at most one pushbutton can be connected to the input.



Double Switch-D controller is not adapted to work with backlit buttons.

First launch

Once you have connected your new device to the power supply, it is advisable to carry out personalisation, i.e. linking it to your phone and user account. To do this, launch the Fox app, select the settings  icon , then the **Add new device** command.



If you are running the application on your phone for the first time, follow the programme's instructions to register a user account or log in to an existing account, then select Fox Wi-Fi: **Search and configure wireless devices**.



Personalisation of the controller takes place via a direct connection. Due to the limited range of such a connection, it is recommended to carry out personalisation standing directly at the controller.



Fox controllers only support 2.4 GHz Wi-Fi connections. **It is not possible to connect the controller to a 5 GHz network!**

Once the search process is complete, the new Fox devices will be displayed.

The Double Switch-D module will appear in the list as follows:



To add a new device, you must first connect to it (press the **Connect** button) and, once it has been established (figure below), press the **Configure** button and continue following the instructions of the application.



LED signalling

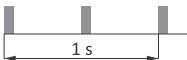
The status of the module can be directly assessed by the STATUS light located on the front of the device.



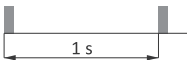
The grey color actually corresponds to the green LED and the black color to the red LED.



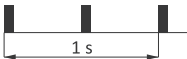
Controller
in factory mode



Connecting to
a Wi-Fi network



Connection to Wi-Fi
network established



No connection
to Wi-Fi network



Restoring firmware

Restore factory settings

If you are unable to access the controller, we recommend that you restore the controller to factory settings and reconfigure it using the Fox app.

To restore the factory settings, proceed as follows

1. While the controller is operating, press and hold the PROG button on the front of the controller. When the button is pressed, the green LED will start to flash rapidly.
2. After about 5 seconds, the LED will turn off and you should release the PROG button.
3. Press the PROG button briefly, the green LED will light up again.
4. Press and hold down the PROG button. After about 3 seconds, the previously switched on green LED control light will start to flash. After another 3 seconds, it will go out and the red LED light up.
5. Release the button – after a few seconds the indicator LED will turn green and the controller will restart.
6. After completing this procedure, the access passwords and parameters for remote access have been cleared. You can now search for your device again in the app and personalize it again.

Technical data

power supply	165÷265 V AC
control input	2
type	digital
galvanic separation	no
control voltage	165÷265 V AC
control pulse current	<2 mA
outputs	2
type	relay
contact	2×NO/NC
galvanic separation	tak
maximum load current*	
resistive load	16 A/channel
contact voltage	250 V AC 24 V DC
power consumption	
standby	<1.2 W
operation (output on)	<2 W
communication	
radio frequency	2.4 GHz
transmission	Wi-Fi
radio power (IEEE 802.11n)	<20 dBm
receiver sensitivity	-98 dBm

* Load of a resistive nature [AC-1].

For loads of a different nature (e.g. LED lighting), the maximum load current may be significantly lower.

More information:

www.fif.com.pl/en/content/24-wskazowki



terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
working temperature	0÷45°C
humidity	<90%
(no condensation of steam and aggressive gases)	
dimensions	2 modules (35 mm)
mounting	on TH-35 rail
ingress protection	IP20

Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found on www.fif.com.pl on the product page.

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